Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

 (Withdrawn) A method of fabricating a ceramic article comprising: forming a molded component comprising a ceramic powder comprising silicon carbide;

sintering the molded component at about 2200° to about 2500° C to produce a sintered component having an impurity component concentration of less than about 400 ppm.

- 2. (Withdrawn) The method of claim 1, wherein sintering is performed under a vacuum pressure of less than about 10 torr for at least about two hours.
- 3. (Withdrawn) The method of claim 1, further comprising washing the sintered component with an acid solution.
- 4. (Withdrawn) The method of claim 3, wherein the acid solution comprises at least one acid selected from the group consisting of hydrochloric acid, nitric acid, and hydrofluoric acid.
- 5. (Withdrawn) The method of claim 1, further comprising forming at least one feature on the molded component.
- 6. (Withdrawn) The method of claim 1, further comprising forming at least one feature on the sintered component.
- 7. (Withdrawn) The method of claim 6, further comprising forming an oxide layer on a surface of the sintered component.

Serial No. 10/752,434

- 8. (Withdrawn) The method of claim 7, wherein forming the oxide layer comprises heating the sintered component at a temperature of about 1000° to about 1300° C under an oxidizing atmosphere.
- 9. (Withdrawn) The method of claim 8, wherein the oxidizing atmosphere comprises oxygen and at least one chlorinated species selected from the group consisting of chlorine, hydrogen chloride, dichloroethylene, and trichloroethane.
- 10. (Withdrawn) The method of claim 7, further comprising removing the oxide layer from the sintered component.
- 11. (Withdrawn) The method of claim 10, wherein removing the oxide layer comprises washing the sintered component with an acid solution.
- 12. (Withdrawn) The method of claim 11, wherein removing the oxide layer further comprises rinsing any acid from the sintered component with water.
- 13. (Withdrawn) The method of claim 1, wherein sintering is performed until at least a portion of the sintered component has a pore size of at least about 15 μ m.
- 14. (Previously Presented) An article comprising a recrystallized ceramic material selected from the group consisting of silicon carbide, silicon nitride, and aluminum oxide, the ceramic material having a pore size of at least about 15 μ m and an active impurity component at a concentration of less than 1 ppm.
- 15. (Original) The article of claim 14, wherein the active impurity component can migrate to a semiconductor wafer during semiconductor wafer processing.

16.-22. (Cancelled)

- 23. (Original) The article of claim 14, wherein the ceramic material further comprises an inert impurity component.
- 24. (Original) The article of claim 14, wherein the article is a wafer boat and the ceramic material comprises silicon carbide.
- 25. (Withdrawn) A method of fabricating a component of a wafer boat comprising:

 providing a molded component comprising a ceramic selected from the group consisting of silicon carbide, silicon nitride, and aluminum oxide;

sintering the molded component at a temperature of about 2200° to about 2500° C to form a sintered wafer boat component;

washing the sintered wafer boat component with an acid solution comprising at least one acid selected from the group consisting of hydrofluoric acid, hydrochloric acid, and nitric acid; and

rinsing the sintered wafer boat component with water.

- 26. (Withdrawn) The method of claim 25, further comprising forming at least one surface feature on the sintered wafer boat component.
- 27. (Withdrawn) The method of claim 26, further comprising forming a first oxide layer on a surface of the sintered wafer boat component and removing the first oxide layer from the surface of the sintered wafer boat component.
- 28. (Withdrawn) The method of claim 27, further comprising forming a second oxide layer on a surface of the sintered wafer boat component and removing the second oxide layer after forming and removing the first oxide layer.

- 29. (Withdrawn) The method of claim 25, wherein sintering is performed until at least a portion of the wafer boat component has a pore size of at least about 15 μ m.
- 30. (Previously Presented) An article comprising a ceramic material with recrystallized silicon carbide, the ceramic material having pores interconnected to form a network and an active impurity component at a concentration of less than 1 ppm.
- 31. (Previously Presented) The article of claim 30, wherein the article is a wafer boat and the ceramic material comprises silicon carbide.
- 32. (Previously Presented) The article of claim 30 wherein the pores have a pore size of at least about 15 μ m.
- 33. (Previously Presented) An article comprising a recrystallized silicon carbide member having a network of pores that have a pore size of at least about 5 μ m.
- 34. (Previously Presented) The article of claim 33, wherein the silicon carbide member is free of silicon.
- 35. (Previously Presented) The article of claim 33, wherein the silicon carbide member has a Fe concentration at or below 2 ppm.
- 36. (Previously Presented) The article of claim 33, wherein the silicon carbide member has a Ni concentration at or below 5 ppm.
- 37. (Previously Presented) The article of claim 33 wherein the silicon carbide member has an active impurity component at a concentration of less than about 400 ppm.